

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/059532 A1

(51) International Patent Classification⁷: **G01N 27/07**,
33/86, 33/49

(74) Agent: **PECKMANN, Ralf**; Friedrichstrasse 31, 80801
München (DE).

(21) International Application Number:
PCT/EP2003/014329

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:
16 December 2003 (16.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*):
DYNABYTE INFORMATIONSSYSTEME GMBH
[DE/DE]; Kreillerstrasse 13a, 81673 München (DE).

(72) Inventors; and

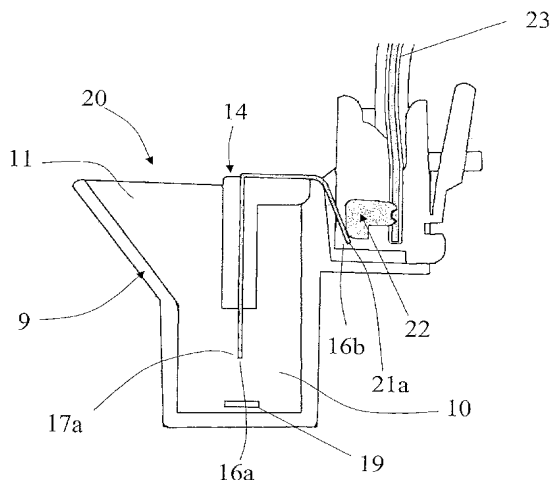
(75) Inventors/Applicants (*for US only*): **CALATZIS, Andreas** [DE/DE]; Kreillerstrasse 13a, 81673 München (DE). **KRÜGER, Ben** [DE/DE]; Winzererstrasse 176, 80797 München (DE). **WITTWER, Marc** [DE/DE]; Eisebeckstrasse 25, 80637 München (DE).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CARTRIDGE DEVICE FOR BLOOD ANALYSIS



(57) Abstract: The present invention provides a cartridge device (20) comprising a receiving portion (10) for receiving a blood sample and a jack portion (18) for receiving a plug (22); a stirring device (19) for circulating said blood sample within said receiving portion (10); and an electrode holder (14) having at least one incorporated electrode wire pair (16; 24; 25; 26); wherein the electrode holder (14) is attachable to the cell (9) such that one end (16a; 24a; 25a; 26a) of the at least one electrode wire pair (16; 24; 25; 26) forms a sensor unit (17a; 17b; 17c; 17d) for measuring the electrical impedance between the two electrode wires of the at least one electrode wire pair (16; 24; 25; 26) within the blood sample and that the opposite end (16b; 24b; 25b; 26b) of the at least one electrode wire pair (16; 24; 25; 26) forms a plug portion (21a; 21b; 21c; 21d) being connectable directly to the plug (22) for an electrical connection of the sensor unit (17a; 17b; 17c; 17d) to an analyser.